

# SEQUENCE LISTING

<110> WALLACH, David  
KOVALENKO, Andrei  
CANTARELLA, Giuseppina

<120> Inhibitor of NF-kB Activator

<130> WALLACH=25

<140> NOT YET ASSIGNED

<141> 2000-09-28

<150> PCT/IL99/00158

<151> 1999-03-18

<150> 09/646,403

<151> 2000-09-18

<150> IL 126024

<151> 1998-09-01

<150> IL 134604

<151> 2000-02-17

<160> 4

<170> PatentIn Ver. 2.0

<210> 1

<211> 2116

<212> DNA

<213> HUMAN

<400> 1

```
gccacgaagg cccagacttt gaccgttctt caccaccact ccagcctcct cctgtgaact 60
cactgaccac cgagaacaga ttccaactctt taccattcag tctaccaag atgccaata 120
ccaatggaag tattggccac agtccaacttt ctctgtcagc ccagtctgta atggaagagc 180
taaacactgc acccgtccaa gagagtcac ccttgccat gcctcctggg aactcacatg 240
gtctagaagt gggctcattg gctgaagta aggagaaccc tcctttctat ggggtaatcc 300
gttggaatcg tcagccacca ggactgaatg aagtgtctgc tggactggaa ctggaagatg 360
agtgtgcagg ctgtacggat ggaaccttca gaggcactcg gtatttcacc tgtgccctga 420
agaaggcgct gtttgtgaaa ctgaagaget gcaggcctga ctctaggttt gcattcattgc 480
agccggtttc caatcaagat tgagcgtctg aactctttag catttgagg ctacttaagt 540
gaagtagtng aagaaaatac tnccanccaa aaatggaaaa agaargcttg gagataatga 600
ttggggaaag aagaaaggca tccaagggtc attacaattc ttgktactta gnactcaacc 660
ttattctkgc ttatttkgct tttagttctg ttctnggaca ctggtgttac tttagacccc 720
aaagaaaaag aaacgatgtt agaataattw wkvgmmaccc aagagctact gaggacagaa 780
```

09671687092800

SUB  
H2

```

attgttaatc ctctgagaat atatggatat gtgtgtgccca caaaaattat gaaactgagg 840
aaaataacttg aaaaggtgga ggctgcatca ggatttacct ctgaagaaaa agatcctgag 900
gaattcttga atattctgtt tcatcatatt ttaagggtag aacctttgct aaaaaataaga 960
tcagcaggtc aaaaggtaca agattgttac ttctatcaaa tttttatgga aaaaaatgag 1020
aaagttggcg ttcccacaat tcagcagttg ttagaatggt cttttatcaa cagtaacctg 1080
aaatttgcag aggcaccatc atgtctgatt attcagatgc ctcgatttgg aaaagacttt 1140
aaactattta aaaaattttt ctttctctgg aattagatat aacagattta cttgaagaca 1200
ccccagacag tgccggatat gtggaggggct tgcaatgtat gagtgtgaaga atgctacgac 1260
gatccggaca ccagctggaa aaacaagcag ttttgtaaaa cctgcaacac tcaagtccac 1320
cttcatccga agaggctgaa tcataaatat aaccagtggt cacttcccaa agacttaccc 1380
cgactgggag attggagaca cggctgcatc ccttgccaga atatggagtt atttgctgtt 1440
ctctgcatag aaacaagcca ctatgttgct tttgtgaagt atgggaagga cgattctgcc 1500
tggctcttct ttggacagca tggccgatcc gggatggtgg tcagaatggc tcaacattcc 1560
cccaagtcmc ccmtgsccca gaagtaggag agtacttggg agatgtctcc tggagacccc 1620
tgsawtycct tggactccca ggagaatccc aaggctgtgc acgaagactg ctttgtgatg 1680
ccatatatgt gccatgtacc cagagtccaa caatgagttt gtacaaataa ctgggggtca 1740
tcgggaaagg caaagaaact ggaaggcaga gtccctaacg ttgcatctta ttcgagctg 1800
gcagttctgt tcacggtcca ttgccggcaa tggatgtctt tgtggtgatg atccttcaga 1860
aaaggatgcc tctgtttaaa aacaaattgc ttttgtgtcc ctgaagtatt taataagaag 1920
cattttgcac tctagaaagt atgttttgtt tggtttttta agaagtctaa atgaagttat 1980
taatacctga agctttaagt taagtgcatt gatcatatga tatttttgga agcatacaat 2040
tttaattgtc gaagtttaaa gcctctttta gtccattgag aatgtaaata aatgtgtctt 2100
ctttatggaa aaaaaa

```

<210> 2

<211> 3715

<212> DNA

<213> HUMAN

<400> 2

```

ggggtttttct tttaacntc tncggtaccg aactcggatc cactagtaac gggccgccag 60
tgtgtctggaa attcggcacg aggggtgtggg gagccggggc cggcccggga cgcgggctgg 120
ggagccgggg cgaggggoga cggcccggcg cccgagtttc cccctttcta gggtaggat 180
ggttctacac agccaccggg agttccttag ttgaaagggt cgcctgtctg tgacagaatg 240
tggttaattgt aatctttaac attttcatgt aaaacatatt tcctgatcat ctttccattg 300
tcttcatgga aaattgataa atatttgtgc cttccaactc tcgtcttggg tgaatgactt 360
catcttaata caacatggac accacgttgc tgaaaacatg ctttgggact gccactgaat 420
ttatcttttg cggttttatg acaaaagtat tagtagtttc ccttttttga attagtattt 480
tgaagttaat atcacaatga gttcaggctt atggagccaa gaaaaagtca cttcaccccta 540
ctgggaagag cggatttttt acttgcttct tcaagaatgc agcgttacag acaaacaaac 600
acaaaagctc cttaaagtac cgaagggaag tataggacag tatattcaag atcgttctgt 660
ggggcattca aggattcctt ctgcaaaagg caagaaaaat cagattggat taaaaattct 720
agagcaacct catgcagttc tctttgttga tgaaanggat gttgtagaga taaatgaaaa 780
gttcacagag ttacttttgg caattaccaa ttgtgaggag aggttcagcc tgtttaaaaa 840
cagaaacaga ctaagtaaag gcctccaaat agacgtgggc tgtcctgtga aagtacagct 900
gagatctggg gaagaaaaat ttcttgaggt tgtacgcttc agaggacccc tgttagcaga 960
gaggacagtc tccggaatat tctttggagt tgaattgctg gaagaaggtc gtggtcaagg 1020
tttcaactgac ggggtgtacc aagggaaca gctttttcag tgtgatgaag attgtggcgt 1080

```

gtttgttgca	ttggacaagc	tagaactcat	agaagatgat	gacactgcac	tggaaagtga	1140
ttacgcaggt	cctggggaca	caatgcaggt	cgaacttcct	cctttggaaa	taaactccag	1200
agtttctttg	aaggggtggag	aaacaataga	atctggaaca	gttatattct	gtgatgtttt	1260
gccaggaaaa	gaaagccttag	gatattttgt	tggtgtggac	atggataacc	ctattggcaa	1320
ctgggatgga	agatttgatg	gagtgcanct	ttgtagtttt	gcgtgtgttg	aaagtacaat	1380
tctattgcac	atcaatgata	tcatcccaga	gagtgtgacg	caggaaagga	ggcctcccaa	1440
acttgccitt	atgtcaagag	gtgttgggga	caaaggttca	tccagtcata	ataaacccaa	1500
ggctacagga	tctacctcag	accctggaaa	tagaamcaga	tctgaattat	tttatacctt	1560
aaatgggtct	tctgttgact	cacaaccaca	atccaaatca	aaaaatacat	ggtacattga	1620
tgaagttgca	gaagaccctg	caaaatctct	tacagagata	tctacagact	ttgaccgttc	1680
ttcaccacca	ctccagcctc	ctcctgtgaa	ctcactgacc	accgagaaca	gattccactc	1740
tttaccattc	agtctcacca	agatgcccaa	taccaatgga	agtattggcc	acagtcact	1800
ttctctgtca	gcccagttct	taatggaaga	gctaaaacact	gcacccgtcc	aagagagtcc	1860
acccttggcc	atgcctcctg	ggaactcaca	tggtctagaa	gtgggctcat	tggctgaagt	1920
taaggagaac	cctcctttct	atggggtaat	ccgttggtac	ggtcagccac	caggactgaa	1980
tgaagtgtct	gctggactgg	aactggaaga	tgagtgtgca	ggctgtacgg	atggaacctt	2040
cagaggcact	cggtatttca	cctgtgccct	gaagaaggcg	ctgttttgtga	aactgaagag	2100
ctgcaggcct	gactctaggt	ttgcatcatt	gcagccggtt	tccaatcaga	ttgagcgctg	2160
taactcttta	gcatttgag	gctacttaag	tgaagtagta	gaagaaaata	ctccacccaa	2220
aatggaaaaa	gaaggccttg	agataatgat	tgggaagaag	aaaggcatcc	agggtcatta	2280
caattcttgt	tacttagact	caaccttatt	ctgcttattt	gcttttagtt	ctgttcttga	2340
cactgtgtta	cttagacca	aagaaaagaa	cgatgtagaa	tattatagt	aaacccaaga	2400
gctactgagg	acagaaattg	ttaatcctct	gagaatatat	ggatatgtgt	gtgccacaaa	2460
aattatgaaa	ctgaggaaaa	tacttgaaaa	ggtggaggct	gcacaggat	ttacctctga	2520
agaaaaagat	cctgaggaat	tcttgaatat	tctgtttcat	catattttta	gggtagaacc	2580
tttgctaaaa	ataagatcag	cagggtcaaaa	ggtacaagat	tgttacttct	atcaaatttt	2640
tatggaaaaa	aatgagaaag	ttggcgttcc	cacaattcag	cagttgttag	aatgggtctt	2700
tatcaacagt	aacctgaaat	ttgcagaggc	accatcatgt	ctgattattc	agatgcctcg	2760
atttgaaaaa	gactttaaac	tatttaaaaa	aatttttcct	tctctggaat	taaatataac	2820
agatttactt	gaagacactc	ccagacagtg	ccggatatgt	ggagggttg	caatgtatga	2880
gtgtagagaa	tgctacgacg	atccggacat	ctcagctgga	aaaatcaagc	agttttgtaa	2940
aacctgcaac	actcaagtcc	accttcaccc	gaagaggctg	aatcataaat	ataaccagtc	3000
gtcacttccc	aaagacttac	ccgactggga	ctggagacac	ggctgcaccc	cttgccagaa	3060
tatggagtta	tttgctgttc	tctgcataga	aacaagccac	tatgttgctt	ttgtgaagta	3120
tgggaaggac	gattctgcct	ggctcttctt	tgacagcatg	gccgatcggt	atgggtgtca	3180
gaatggcttc	aacattcctc	aagtcacccc	atgccacaga	gtaggagagt	acttgaagat	3240
gtctctggaa	gacctgcatt	ccttggactc	caggagaatc	caaggctgtg	cacgaagact	3300
gctttgtgat	gcataatatg	gcattgtacca	gagtcaca	atgagtttgt	acaaataact	3360
ggggctcatcg	ggaaaggcaa	agaaactgaa	ggcagagtc	taacgttgca	tcttattcga	3420
gctggcagtt	ctgttcacgt	ccattgccgg	caatggatgt	ctttgtgggt	atgatccttc	3480
agaaaaggat	gcctctgttt	aaaaacaaat	tgccttttgt	tccctgaagt	atttaataag	3540
aagcattttg	cactctagaa	agtatgtttg	tggttggttt	ttaagaagtc	ttaaataagt	3600
tattaatacc	tgaagcttta	agttaagtgc	attgatcata	tgatattttt	ggaagcatac	3660
aatttttaatt	gtggaaagttt	aaagcctctt	ttaqtcatt	gagaatgtaa	ataaaa	3715

```
<210> 3
<211> 949.
<212> PRT
```



Thr Ile Glu Ser Gly Thr Val Ile Phe Cys Asp Val Leu Pro Gly Lys  
 245 250 255

Glu Ser Leu Gly Tyr Phe Val Gly Val Asp Met Asp Asn Pro Ile Gly  
 260 265 270

Asn Trp Asp Gly Arg Phe Asp Gly Val Leu Cys Ser Phe Ala Cys Val  
 275 280 285

Glu Ser Thr Ile Leu Leu His Ile Asn Asp Ile Ile Pro Glu Ser Val  
 290 295 300

Thr Gln Glu Arg Arg Pro Pro Lys Leu Ala Phe Met Ser Arg Gly Val  
 305 310 315 320

Gly Asp Lys Gly Ser Ser Ser His Asn Lys Pro Lys Ala Thr Gly Ser  
 325 330 335

Thr Ser Asp Pro Gly Asn Arg Arg Ser Glu Leu Phe Tyr Thr Leu Asn  
 340 345 350

Gly Ser Ser Val Asp Ser Gln Pro Gln Ser Lys Ser Lys Asn Thr Trp  
 355 360 365

Tyr Ile Asp Glu Val Ala Glu Asp Pro Ala Lys Ser Leu Thr Glu Ile  
 370 375 380

Ser Thr Asp Phe Asp Arg Ser Ser Pro Pro Leu Gln Pro Pro Pro Val  
 385 390 395 400

Asn Ser Leu Thr Thr Glu Asn Arg Phe His Ser Leu Pro Phe Ser Leu  
 405 410 415

Thr Lys Met Pro Asn Thr Asn Gly Ser Ile Gly His Ser Pro Leu Ser  
 420 425 430

Leu Ser Ala Gln Ser Val Met Glu Glu Leu Asn Thr Ala Pro Val Gln  
 435 440 445

Glu Ser Pro Pro Leu Ala Met Pro Pro Gly Asn Ser His Gly Leu Glu  
 450 455 460

Val Gly Ser Leu Ala Glu Val Lys Glu Asn Pro Pro Phe Tyr Gly Val  
 465 470 475 480

Ile Arg Trp Ile Gly Gln Pro Pro Gly Leu Asn Glu Val Leu Ala Gly  
 485 490 495



Gly Lys Asp Phe Lys Leu Phe Lys Lys Ile Phe Pro Ser Leu Glu Leu  
755 760 765

Asn Ile Thr Asp Leu Leu Glu Asp Thr Pro Arg Gln Cys Arg Ile Cys  
770 775 780

Gly Gly Leu Ala Met Tyr Glu Cys Arg Glu Cys Tyr Asp Asp Pro Asp  
785 790 795 800

Ile Ser Ala Gly Lys Ile Lys Gln Phe Cys Lys Thr Cys Asn Thr Gln  
805 810 815

Val His Leu His Pro Lys Arg Leu Asn His Lys Tyr Asn Pro Val Ser  
820 825 830

Leu Pro Lys Asp Leu Pro Asp Trp Asp Trp Arg His Gly Cys Ile Pro  
835 840 845

Cys Gln Asn Met Glu Leu Phe Ala Val Leu Cys Ile Glu Thr Ser His  
850 855 860

Tyr Val Ala Phe Val Lys Tyr Gly Lys Asp Asp Ser Ala Trp Leu Phe  
865 870 875 880

Phe Asp Ser Met Ala Asp Arg Asp Gly Gly Gln Asn Gly Phe Asn Ile  
885 890 895

Pro Gln Val Thr Pro Cys Pro Glu Val Gly Glu Tyr Leu Lys Met Ser  
900 905 910

Leu Glu Asp Leu His Ser Leu Asp Ser Arg Arg Ile Gln Gly Cys Ala  
915 920 925

Arg Arg Leu Leu Cys Asp Ala Tyr Met Cys Met Tyr Gln Ser Pro Thr  
930 935 940

Met Ser Leu Tyr Lys  
945

<210> 4

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Synthetic

<400> 4

cggtggtcag tgagttcaca ggagg

25

008250" 052300